DPU-240 PRELIMINARY PRODUCT SUMMARY

DPU-240 Electric Vehicle Charger Power Unit

Ultra-Rapid, 240kW Distributed Power Unit,

Motion Applied's electric vehicle (EV) charging architecture harnesses our decade long involvement in the development of high-performance batteries and power electronics.

The complete charging solution provides ultrarapid, distributed EV charging with superior reliability, low noise, high efficiency, and long life.

Motion Applied's DPU-240 power unit is at the core of the ultra-rapid 240kW DC charging system. It can support up to 6 charging connectors and is suitable for public and private charging stations that demand distributed, ultra-rapid charging.



GENERAL SPECIFICATIONS

Dimensions (W x D x H) 1700 x 800 x 2150 mm

Power Configuration
Installation mode
System Efficiency
Y40 kW
Floor mounted
94.7% (Full load)

95.5% (Max efficiency)

2 x 400 Vac2

Cooling LiquidIP Rating IP55Communication interface 4G, FE1

INPUT SPECIFICATIONS

Rated Frequency 45-66 Hz
Rated Input Current ≤ 373 A (240 kW)
Input Module 120 kW AC/DC3
Power Factor ≥ 0.99 (Load ≥ 50%)
THDi ≤ 5% (Load ≥ 50%)

OUTPUT SPECIFICATIONS

Output Voltage
200 to 1000 Vdc

Output Power
240 kW

Output Module
60 kW DC/DC3

Output Current Tolerance ≤ ±1% (Load: 20% to 100%)

Output Voltage Tolerance ≤ 0.5%

Charging Connectors
Max 6 (Max 4 x 500A)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature
Storage Temperature
-35 °C to +50 °C
-35 °C to +70 °C

■ Altitude ≤ 4000 m

Relative Humidity 5% to 95% (Non-condensing)
Noise ≤ 55 dB @ 25°C (Mute mode)
≤ 60 dB @ 25°C (Full load at 1m)

COMPLIANCE

■ IEC 61851-1, IEC 61851-23, IEC 61851-21-2

Northbound communication

Rated Input Voltage

Three-phase five-wire system Liquid-cooled module

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Motion Applied offers the full range of white-labelled charging solutions from 7/22kW AC units to 720kW DC distributed charging with a 1.5 MW DC charger coming soon¹ MAC-722 MDC-80 DPU-240 DPU-600/720 1.5MW 2 Untethered /120/160 power units Power Unit power units and tethered /200/240 HCD-500 HCD-500 variants dispensers dispensers 7.4 /22 kW AC 1,500 kW **80 kW** DC 240 kW 600/ 720 kW **120 kW** DC distributed DC distributed DC Combined distributed DC unit **160 kW** DC with 500A with 500A **200 kW** DC dispensers dispensers Screen: 240 kW DC 7" or 5" Screen and or no-screen Screen: 21.5" Screen: 10.1" Screen: 10.1" connectors **TBC** Up to 12x CCS2 1x or 2x CCS2 2 x CCS2 Up to 6x CCS2 ON THE PRODUCT ROADMAP Source: Motion Applied; Note1: 1.5 MW DC charging capable of charging 300kWh in 15 minutes

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